

AD1AA-A

ADAPTER SET, COAXIAL

**1. GENERAL.** This procurement requires a 50-ohm RF adapter kit consisting of BNC, N, UHF, SMA, HN, C and TNC type male and female connectors.

**2. CLASSIFICATION.** Type II, Class 5, Style EP and Color R in accordance with MIL-T-28800. The power source and electromagnetic interference requirements are not invoked.

**3. OPERATIONAL REQUIREMENTS.** The adapter kit shall allow the user to construct an adapter by mating any two of the connector types listed in table I via a common universal coupler. The universal coupler shall not degrade the frequency range for any connector listed in table I and shall not have a VSWR above 1.1 up to 8.5 GHz.

TABLE I. Connector Types and Specifications

TYPE	QTY (Gender)	Voltage Rating	Frequency Range	
BNC	2(m), 2(f)	500 Vpk	0-8.5 GHz	
N	3(m), 3(f)	1000 Vpk	0-8.5 GHz	
UHF	2(m), 2(f)	500 Vpk	0-300 MHz	
SMA	1(m), 1(f)	300 Vpk	0-1 GHz	
HN	1(m), 1(f)	1500 Vpk	0-4 GHz	
C	1(m), 1(f)	1000 Vpk	0-8.5 GHz	
TNC	1(m), 1(f)	500 Vpk	0-8.5 GHz	
3-way Binding Posts	1(ea)			
Tee section	1(ea)			
90° (right angle) section	1(ea)			
Note: VSWR shall not exceed 1.1 for connectors and 1.35 for tee and right-angle sections at frequencies below 6 GHz.				

**3.1 Coaxial cable.** One 3-foot and one 2-foot length of RG-58C/U, with one end terminated with a universal coupler and the other end terminated with double banana plugs shall be provided.

**3.2 Adapter impedance.** 50 ohms nominal.

**4. GENERAL REQUIREMENTS.**

**4.1 Weight.** 4.5 kg (10 lb) maximum.

**4.2 Lithium batteries.** Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

**4.3 Transit case.** The Style P transit case shall provide protection and have specific positions for each component of the adapter kit. The transit case shall be in compliance with the requirements set forth in MIL-T-28800.